

### **ABSTRACT OF THE DISCLOSURE**

An autostereoscopic optical apparatus (10) for viewing a stereoscopic virtual image comprises a left image to be viewed by an observer (12) at a left viewing pupil (14l) and a right image to be viewed by the observer at  
5 a right viewing pupil (14r). The apparatus comprises a left pupil imaging system for forming the left image. A right pupil imaging system forms the right image.